

SYSTEM AND METHOD FOR PREVENTING ELECTRIC ARCS IN CONNECTORS FEEDING POWER LOADS AND CONNECTOR USED

Abstract

-19-A system and method for preventing electric arcs in connectors feeding power loads and connector used, Comprising several connectors (11) interspersed in an electric power distribution network, integrating first and second releasable socket coupling supports (1, 2) bearing at least one pair of terminals (3, 4) which, in a first coupling position A, are electrically coupled, forming a channel (5, 6) to a load (10), which terminals (3, 4), in another decoupling position C of the supports (1, 2), are separated, it being possible to generate an electric arc, each connector (11) comprising a pair of electroconductive elements (12, 13) which, in said position A or in intermediate decoupling position B, and before the terminals (3, 4) reach said position C, form an auxiliary electric circuit (14, 15) through which an electric warning signal is generated during a transition towards decoupling, there being a

device (7) connected to the auxiliary circuit (14, 15) which, upon receiving said warning signal, interrupts the electric feed to said channel (5, 6) of the terminals (3, 4) prior to their physical separation.